- 1 What is claimed is:
- A system for configuring networks,
- 3 comprising:
- 4 at least one network element database, the at
- 5 least one network element database abstracting
- 6 interface data regarding at least one network
- 7 element; and
- 8 a processor, communicating with the at least one
- 9 network element database, the processor operable to
- 10 configure a network using the at least one network
- 11 element database.
- 12 2. The system of claim 1, wherein the at least
- 13 one network element database comprises a set of data
- 14 corresponding to network elements.
- 15 3. The system of claim 2, wherein the set of
- 16 data corresponding to network elements comprises data
- 17 corresponding to at least one of routing elements,
- 18 switching elements, optical elements, and wireless
- 19 elements.
- 20 4. The system of claim 3, wherein the set of
- 21 data corresponding to network elements is extensible.
- 22 5. The system of claim 1, wherein the
- 23 processor comprises a user interface.
- 24 6. The system of claim 5, wherein the user
- 25 interface comprises object oriented code.
- 7. The system of claim 6, wherein the user
- 27 interface comprises at least one of a network element
- 28 list and a network map.
- 29 8. The system of claim 1, further comprising a
- 30 network port, the processor communicating via the
- 31 network port with a network to be configured.

- 1 9. The system of claim 1, wherein the
- 2 interface data comprises at least one of software
- 3 interface requirements, hardware interface
- 4 requirements, and protocol specifications.
- 5 10. The system of claim 1, wherein the
- 6 processor stores an image of a network for
- 7 modification.
- 8 11. A method for configuring networks,
- 9 comprising:
- 10 a) abstracting interface data regarding at
- 11 least one network element in at least one network
- 12 element database; and
- 13 b) configuring a network via communication
- 14 with the at least one network element database.
- 15 12. The method of claim 11, wherein the at
- 16 least one network element database comprises a set of
- 17 data corresponding to network elements.
- 18 13. The method of claim 12, wherein the set of
- 19 data corresponding to network elements comprises data
- 20 corresponding to at least one of routing elements,
- 21 switching elements, optical elements, and wireless
- 22 elements.
- 23 14. The method of claim 13, wherein the set of
- 24 data corresponding to network elements is extensible.
- 25 15. The method of claim 11, wherein the
- 26 processor comprises a user interface.
- 27 16. The method of claim 15, wherein the user
- 28 interface comprises object oriented code.
- 29 17. The method of claim 16, wherein the user
- 30 interface comprises at least one of a network element
- 31 list and a network map.

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- 1 18. The method of claim 11, further comprising 2 a step of c) communicating via a network port with a
- 3 network to be configured.
- 4 19. The method of claim 11, wherein the
- 5 interface data comprises at least one of software
- 6 interface requirements, hardware interface
- 7 requirements, and protocol specifications.
- 8 20. The method of claim 11, further comprising
- 9 a step of d) storing an image of a network for
- 10 modification.

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